

## SWITCH DEVICE

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EC Classification:

Equivalents:

### Abstract

**PURPOSE:** To provide the switch device from which lots of information is provided without selection of commands.

**CONSTITUTION:** The switch device 1 outputs an electric signal depending on a switch manipulated variable of a switch and its operation time and the electric signal is given to an information processing unit 7. The switch device 1 is made up of a switch 3 generating a signal related to a manipulated variable when in operation and a signal output means 5 for converting the signal of the manipulated variable of the switch 3 into a signal related to its operation time. A button 14 is fixed movably vertically to a cover 13 of the switch 3 a movable contact 15 is fixed to a lower end of the button 14 and always energized to an upper position by a coil spring or the like. Semi-circular conductors 18 are arranged at a gap 19 opposite the movable contact 15 made of a conductive rubber G having a prescribed resistance and they form a disk as a whole. Then a change in the resistance between both the semi-circular conductors 18 is outputted from the switch 3 as a signal related to the manipulated variable and the signal output means 5 outputs a signal relating its operation time.

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特開平7-302159

71

72

7 情報処理装置  
 9 情報処理装置  
 71 CPU  
 72 インターフェース  
 91 CPU  
 92 インターフェース  
 13 カバー  
 14 ボタン  
 15, 15c, 15d 可動接点  
 15a 可動磁石

\* 15b 可動電極

18, 18c, 18d 固定接点

18a 固定コイル

18b 固定電極

18c1, 18c2, 18c3, 18c4, 18c5 電極

18d1, 18d2, 18d3, 18d4, 18d5 電極

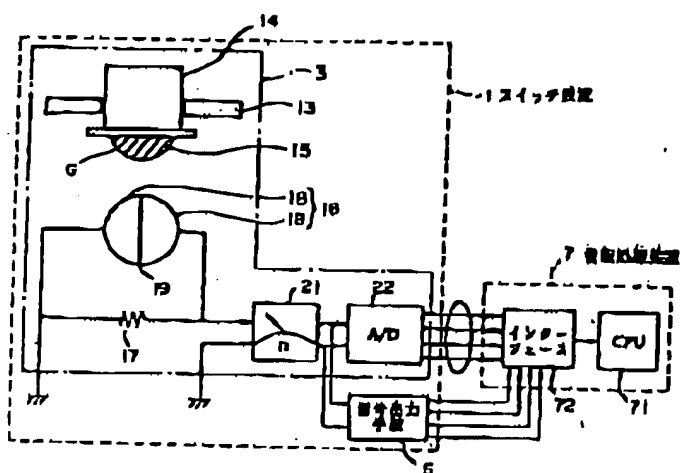
19 間隙

19c1, 19c2, 19c3, 19c4 間隙

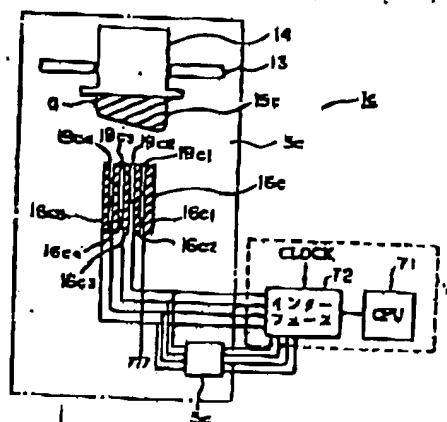
19d1, 19d2, 19d3, 19d4 間隙

\* 10

【図1】



【図7】



【図2】

